



# Smart Antennas with MATLAB, Second Edition: Principles and Applications in Wireless Communication

*Frank Gross*

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# Smart Antennas with MATLAB, Second Edition: Principles and Applications in Wireless Communication

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**The most complete, current guide to smart antenna design and performance**

Featuring new coverage of reconfigurable antennas, vector antennas, and direction-finding antennas, this up-to-date resource offers a rigorous review of the basic electromagnetic principles that drive smart antenna design and deployment. Case studies and worked examples using MATLAB are provided. End-of-chapter assignments reinforce the concepts presented. Thoroughly revised to reflect recent developments and the latest technologies, this is a comprehensive reference for all professionals, students, and researchers in the field of smart antennas.

*Smart Antennas with MATLAB*, Second Edition, covers:

- Fundamentals of electromagnetic fields
- Antenna fundamentals
- Array fundamentals
- Principles of random variables and processes
- Propagation channel characteristics
- Angle-of-arrival estimation
- Smart antennas
- Direction finding
- Electromagnetic vector sensors
- Smart antenna design and optimization

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